

Claims

1. A portable convergent miniaturized spray gun including a handle having a central passage for flowing liquid resin and a concentric passage relative to the central passage for flowing pressurized air, and a nozzle internal of said spray gun for discharging the liquid resin from the central passage, a double concentric tube assembly having an additional central passage in axial alignment with said central passage for receiving resin from said internal nozzle, an additional concentric passage relative to said central passage in axial alignment with said concentric passage, a fluid tip mounted on the end of said additional central passage defining a central orifice for discharging the resin flowing from said central passage and said additional central passage, an air cap mounted over said fluid tip and defining therewith an air nozzle for flowing air into said resin stream discharging from said central orifice and defining an atomized convergent spray having a low pressure zone and a dry powdered nozzle having angled flow passages for directing dry powder into the low pressure zone of said atomized convergent spray.

2. A portable convergent miniaturized spray gun as claimed in claim

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1 including a sleeve surrounding said double concentric tube assembly and  
defining a manifold, said dry powdered nozzle including diametrically opposed  
passages disposed relative to said additional central passage communicating  
with said manifold for leading dry powder from said diametrically opposed  
5 passages to the orifice formed on the end of said dry powdered nozzle and  
directing said dry powder to the low pressure zone.

3. A portable convergent miniaturized spray gun as claimed in claim  
1 wherein said dry powdered nozzle including diametrically opposed passages  
disposed relative to said additional central passage for directing said dry  
10 powder directly into the low pressure zone.

4. A portable convergent miniaturized spray gun as claimed in claim  
1 wherein said spray gun including a main body, said main body being L-  
shaped.

15 5. A portable convergent miniaturized spray gun as claimed in claim  
4 including a receiving box attached to said handle for receiving the dry  
powder and low pressure air for directing said powder into said diametrically

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opposed passages.

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5 6. A portable convergent miniaturized spray gun as claimed in claim 5 including a mixer disposed downstream of said main body, a source of resin and a source of catalyst, a manifold, connection means for interconnecting said manifold with said source of resin and said source of catalyst to said mixer and a hose interconnection said mixer with said spray gun.

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7. A portable convergent miniaturized spray gun as claimed in claim 6 including a valve operatively connected to said additional central passage for flowing and stopping the flow of said resin.

10 8. A portable convergent miniaturized spray gun as claimed in claim 1 having a straight-through main body, a mixer in said main body having a plurality of paddles, said mixer being in communication with said central passage for mixing the resin and catalyst, and being connected to said additional central passage.

15 9. A portable convergent miniaturized spray gun as claimed in claim

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